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SJ Grant, JK Cavers - IEEE Transactions on Communications, 1998 - [ieeexplore.ieee.org](#)  
... (11) Neglecting hypothesis-independent terms, the appropriate joint **detection metric** to be minimized is ... Evidently, the receiver weights each **antenna** signal ...

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Complex space-time block codes for four Tx **antennas**

O Tirkkonen, A Hottinen - IEEE Global Telecommunications Conference, 2000. ..., 2000 - [ieeexplore.ieee.org](#)  
... from code matrix (8). Decoding of all these block codes is straight forward, for any number of receive **antennas**. A linear **detection metric** providing maximal ...

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Space-time codes for high data rate wireless communication: Performance criteria in the ...

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... in conjunction with space-time codes provided that the number of transmit **antennas** is small. We also derive the maximum-likelihood **detection metric** in the ...

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Existence and construction of noncoherent unitary space-time codes- ► [queensu.ca \(PDF\)](#)

V Tarokh, IM Kim - IEEE Transactions on Information Theory, 2002 - [ieeexplore.ieee.org](#)  
... We first re-cast the ML **detection metric** of [3] into an elegant geometric form ... and Tse for obtaining the asymptotic capacity of the multiple-**antenna** channel at ...

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Performance analysis of MIMO maximum likelihood receivers with channel correlation, ...-

► [uni-stuttgart.de \(PDF\)](#)

M Kiessling, J Speidel, N Geng, M Reinhardt - ... Conference on Communications, 2003. ICC'03, 2003 - [ieeexplore.ieee.org](#)

... The union bound of the SER for transmit **antenna** m (or subchannel m ... A. Characteristic Function of the **Detection Metric** We are using a characteristic function ...

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Wide-angle scanning with reflector **antennas**: a new design technique

PL Detweiler, KM Pasala - ... Aerospace and Electronics Conference, 2000. NAECON ..., 2000 - [ieeexplore.ieee.org](#)

... metric could be zero, and the goal value for the **detection metric** could be ... Figure 2 shows a typical hybrid **antenna** with a cylindrical reflector and planar feed ...

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Reduced complexity multiple symbol differential detection of space-time block code

P Tarasak, VK Bhargava - 2002 IEEE Wireless Communications and Networking ..., 2002 - [ieeexplore.ieee.org](#)  
... to obtain CSI. Differential encoding/decoding has been a popular method when there is no CSI in a single-**antenna** system. In the ...

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[PDF] ► Multiple-symbol detection of differential unitary space-time modulation in fast-fading ...

B Bhukania, P Schniter - Proc. Conference on Information Sciences and ..., 2002 - [ece.osu.edu](#)

... unitary space-time modulation (DUST) can be seen as an extension of differential phase-shift keying (DPSK), commonly used in single **antenna** systems when the ...

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### Detection of tones and pulses using a large, uncalibrated array

SW Ellingson - IEEE Antennas and Propagation Society International ..., 2003 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)  
 ... entire FOV, yet which can be processed together to achieve the sensitivity of a  
 large, fixed-aperture **antenna**. ... 5. Compute a **detection metric** for each FFT bin. ...

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### [PDF] ► Toward real-time SQM for WAAS: improved detection techniques

RE Phelts, T Walter, P Enge - Proceedings of the 16 th International Technical Meeting ..., 2003 - [waas.stanford.edu](http://waas.stanford.edu)  
 ... flexible, quantitative approach to computing a highly-effective **detection metric**,  
 whose detection ... at Camp Parks, California used a high-gain **antenna** to record ...

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### [BOOK] Multi-**antenna** transceiver techniques for 3G and beyond

A Hottinen, O Tirkkonen, R Wichman - 2003 - [books.google.com](http://books.google.com)  
 ... 4.4.1 Equivalent Channel Matrix 82 4.4.2 Maximum Likelihood **Detection Metric** 84  
 4.4 ... loop Methods 10 Closed-loop Methods: Selected Multi-**antenna** Extensions 209 ...

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### [PDF] ► Blind maximum likelihood sequence detection over fast fading communication channels

D Reader - Proceedings of the IEEE International Conference on ..., 1996 - [Citeseer](#)  
 ... 5.3.1 Approximate Blind Maximum Likelihood Sequence **Detection, Metric** ME3 84 . . .  
 Effect of Periodic Phase Rotation Upon the **Detection Metric** 109 . . .

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### Systems and methods for selecting a cell in a communications network

YPE Wang - US Patent App. 09/659,535, 2001 - [Google Patents](#)  
 ... the **detection metric** is greater than the detection threshold, then the mobile terminal  
 140 may select the frequency error estimate associated with the **antenna** ...

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### [PDF] ► Iterative MAP receiver for interference suppression in SDM/OFDM systems

SY Park, CG Kang - IEEE VEHICULAR TECHNOLOGY CONFERENCE, 2002 - [wiselab.korea.ac.kr](http://wiselab.korea.ac.kr)  
 ... through combination of the estimated covariance with the conventional MAP **detection**  
**metric**. ... so that each of P burst sets can be mapped into individual **antenna**. ...

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### Maximum likelihood sequence detection using a pilot tone

BD Hart - IEEE Transactions on Vehicular Technology, 2000 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)  
 ... signal follows multiple paths to the receiver's **antenna**, along which ... The **detection**  
**metric** only requires knowledge of the channel's autocovariance and the ...

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### Evaluation of novel multi-beam **antenna** configurations for TDMA (IS-136) systems

B Hagerman, KJ Molnar, BD Molnar - 1999 IEEE 49th Vehicular Technology Conference, 1999 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... The **detection metric** for a receiver with K **antennas** is given by  $\sum_{k=1}^K P_{k,i}$  The  
 probability of the error event  $\{i \neq j\}$  is then denoted as  $P_{i,j} = P\{i \neq j\}$  ...

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### [CITATION] WIDE-ANGLE SCANNING WITH REFLECTOR ANTENNAS: A NEW DESIGN TECHNIQUE

L PHILIP, MP KRISHNA - Proceedings of the IEEE 2000 National Aerospace and ..., 2000 - [IEEE Service Center](#)  
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### System and method for detecting a link outage

L Wang, Y Antia, J Dai - US Patent 6,622,006, 2003 - [Google Patents](#)  
 ... 8 is a plot of a **detection metric** profile according to the present invention ... signal

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with the predetermined signal strength or receive an **antenna** radiation spot ...

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### Multi-channel equalisation and interference cancellation for HF STANAG 4285 ...

ES Warner, IK Proudfit, Q Ltd - HF Radio Systems and Techniques, 2003. Ninth ..., 2003 - ieeexplore.ieee.org

... jointly in a least-squares method (8). Let the array have M **antennas** and the ... must be positive, the term  $y_d = cHx_w$  can be used as a **detection metric**, where 0 ...

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[PDF] ► Transactions Papers Space-Time Codes for High Data Rate Wireless Communication:

V Tarokh, A Naguib, N Seshadri, AR ... - IEEE Transactions on Communications, 1999 - comsoc.org  
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... ► [utdallas.edu](http://utdallas.edu) (PDF)

H Minn, DI Kim, VK Bhargava - IEEE Transactions on Communications, 2002 - ieeexplore.ieee.org  
... estimation can be performed independently for each transmit-receive **antenna** pair by ... designed received SNR or by means of the sync **detection metric** such as ...

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### Method and apparatus for determining the rate and quality of received data in a variable ...

W Zhao, RC Elliott, X Jin - US Patent 6,598,189, 2003 - Google Patents

... Within the receiving system, the symbols are received by an **antenna** 268 and ... exactly one CRC T,-- then there is one error **detection metric**, CRC,-, indicating ...

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### Method and radio system for digital signal transmission

A Hottinen, O Tirkkonen - US Patent App. 10/225,457, 2002 - Google Patents

... 1), (2) and (4)), possibly by restricting the number of **antennas**. Now denote [0087]

Using these markings, the maximum likelihood **detection metric** for the kth ...

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CD Jilla - 2002 - [ssl.mit.edu](http://ssl.mit.edu)

... 5.17 TechSat 21 TRAM Module Dimensions of a Single Panel (a) and the Entire **Antenna** (b) . . . . 281 ...

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Z PI, U Mitra - The Journal of VLSI Signal Processing, 2002 - Springer

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Academic Publishers. Manufactured in The Netherlands. ...

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### [BOOK] IP/ATM MOBILE SATELLITE NETWORKS

R PRASAD, J FARSEROTU - 2001 - [books.google.com](http://books.google.com)

... length (l,) 48 3.7.3 Coherence time (TO) 48 3.7.4 Angle of arrival deviation (o0)

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